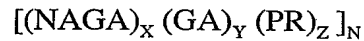## CLAIMS

What is claimed is:

1.   An antimicrobial composition, comprising a combination of a carbohydrate and an antimicrobial agent.

2.   The composition of claim 1, wherein said carbohydrate originates from chitan.

3.   The composition of claim 2, wherein said carbohydrate is N-acetylglucoseamine - glucosamine.

4.   The composition of claim 1, wherein said antimicrobial agent is a broad spectrum antibiotic.

5.   The composition of claim 4, wherein said broad spectrum antibiotic is pyrithione.

6.   An antimicrobial composition having the following structural formula:

$$[(NAGA)_X (GA)_Y (PR)_Z]_N$$

wherein x is from about 0.01 to about 0.3, y is from about 0.3 to about 0.98 and z is from about 0.01 to about 0.3 molar fractions, wherein x+y+z~1, and N has a value between about 1 and about 100.

7.   The composition of claim 6, wherein said composition has a molecular weight in range of about 1 kDa to about 150 kDa.

8.   The composition of claim 1, wherein said composition further comprises between about 0.01% to about 1% of decyl polyglucose.

9.   A method for treating a dermatological condition, comprising administering to a subject in need thereof an effective amount of a composition having N-acetyl-glucoseamine-glucosamine-pyrithione.

10.   The method of claim 9, wherein said dermatological condition is acne or candida.

11.   The method of claim 10, wherein said effective amount for treating said acne is 0.1 mg/mL.

12.   The method of claim 10, wherein said effective amount for treating said candida is from about 0.05 to about 0.7 microgram/mL.

13.   The method of claim 9, wherein said composition further comprises between about 0.01% to about 1% of decyl polyglucose.

14.   The method of claim 9, wherein said composition is topically applied to an afflicted region of said subject.

15.   A method for treating a dermatological condition comprising administering to a subject in need an effective amount of:

$$[(NAGA)_X (GA)_Y (PR)_Z]_N$$

wherein x is from about 0.01 to about 0.3, y is from about 0.3 to about 0.98 and z is from about 0.01 to about 0.3 molar fractions, wherein $x+y+z \sim 1$, and N has a value between about 1 and about 100.